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Substitute for form 1449A/PTO

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Sheet

1

of

Application Number

**09/888.261**

Filing Date

06/21/2001

**First Named Inventor**

NIKOLSKIY, SERGEY

Group Art Unit

3732

**Examiner Name**

Unassigned

Attorney Docket Number

018563-003410US

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
<i>Qyad</i>	AA	4,793,803		Martz	12/1988	
<i>Qyad</i>	AB	5,338,198		Wu et al.	08/1994	
<i>Qyad</i>	AC	5,590,248-A		Zarge et al.	12/1996	
<i>Qyad</i>	AD	5,605,459		Kuroda et al.	02/1997	
<i>Qyad</i>	AE	5,607,305-A		Andersson	03/1997	
<i>Qyad</i>	AF	5,882,192-A		Bergersen	03/1999	
<i>Qyad</i>	AG	6,015,289-A		Andreiko et al.	01/2000	
<i>Qyad</i>	AH	6,044,170-A		Migdal et al.	03/2000	
<i>Qyad</i>	AI	6,044,309-A		Honda	03/2000	
<i>Qyad</i>	AJ	6,049,743-A		Baba	04/2000	
<i>Qyad</i>	AK	6,205,243B1		Migdal	03/2001	
<i>Qyad</i>	AL	6,217,334		Hultgren	04/2001	
<i>Qyad</i>	AM	6,227,850B1		Chishti et al.	05/2001	

[illegible]

Ayal Sharon

12/20/04

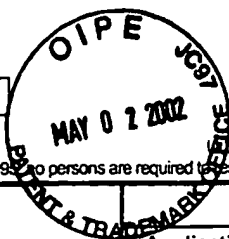
<sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached

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Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of

Application Number	09/888,261
Filing Date	06/21/2001
First Named Inventor	NIKOLSKIY, SERGEY
Group Art Unit	3732
Examiner Name	Unassigned
Attorney Docket Number	018563-003410US

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ayyl	AO	Bohm, W. Farin, G., Kahmann, J., "A Survey of Curve and Surface Methods in CAGD," Computer Aided Geometric Design 1 (1984) pp. 1-60.	
Ayyl	AP	Doyle, "Digital Dentistry" Computer Graphics World (October 2000) pp. 50-52, 54.	
Ayyl	AQ	Foley et al., "Fundamentals of Interactive Computer Graphics," Addison-Wesley Publishing Co., pp. 514-533.	
Ayyl	AR	Redmond et al., "Clinical Implications of Digital Orthodontics," Am J. Orthodont. Dentofacial Orthopedics (2000) 117(2) pp. 240-242.	
Ayyl	AS	Rogers, David F. and Adams, Alan, "Mathematical Elements for Computer Graphics, MacGraw Hill Publishing Co., 2d Ed. pp. 426-450.	
Ayyl	AT	Watt et al., "Advanced Animation and Rendering Techniques Theory and Practice," Addison-Wesley Publishing Co., pp. 101-110.	

Examiner Signature	Ayyl Sharon	Date Considered	12/20/04
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **1** of **10****Complete if Known**

Application Number	09/888,261
Filing Date	June 21, 2001
First Named Inventor	NIKOLSKIY, SERGEY
Art Unit	3732
Examiner Name	Unassigned
Attorney Docket Number	018563-003410US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
<i>ayal</i>	AA	2,467,432	04-19-1949	Kesling	
<i>ayal</i>	AB	3,660,900	05-09-1972	Andrews	
<i>ayal</i>	AC	3,860,803	01-14-1975	Levine	
<i>ayal</i>	AD	3,916,526	11-04-1975	Schudy	
<i>ayal</i>	AE	3,950,851	04-20-1976	Bergersen	
<i>ayal</i>	AF	4,014,096	03-29-1977	Dellinger	
<i>ayal</i>	AG	4,195,046	03-25-1980	Kesling	
<i>ayal</i>	AH	4,324,546	04-13-1982	Heitlinger et al.	
<i>ayal</i>	AI	4,348,178	09-07-1982	Kurz	
<i>ayal</i>	AJ	4,478,580	10-23-1984	Barrut	
<i>ayal</i>	AK	4,504,225	03-12-1985	Yoshii	
<i>ayal</i>	AL	4,505,673	03-19-1985	Yoshii	
<i>ayal</i>	AM	4,575,805	03-11-1986	Moermann, et al.	
<i>ayal</i>	AN	4,611,288	09-09-1986	Duret et al.	
<i>ayal</i>	AO	4,656,860	04-14-1987	Orthuber et al.	
<i>ayal</i>	AP	4,663,720	05-05-1987	Duret et al.	
<i>ayal</i>	AQ	4,742,464	05-03-1988	Duret et al.	
<i>ayal</i>	AR	4,755,139	07-05-1988	Abbatte et al.	
<i>ayal</i>	AS	4,763,791	08-16-1988	Halverson et al.	
<i>ayal</i>	AT	4,793,803	12-27-1988	Martz	
<i>ayal</i>	AU	4,798,534	01-17-1989	Breads	
<i>ayal</i>	AV	4,837,732	06-06-1989	Brandestini et al.	
<i>ayal</i>	AW	4,850,864	07-25-1989	Diamond	
<i>ayal</i>	AX	4,856,991	08-15-1989	Breads et al.	
<i>ayal</i>	AY	4,936,862	06-26-1990	Walker et al.	
<i>ayal</i>	AZ	4,937,928	07-03-1990	van der Zel	
<i>ayal</i>	BA	4,964,770	10-23-1990	Steinbichler et al.	
<i>ayal</i>	BB	4,975,052	12-04-1990	Spencer et al.	
<i>ayal</i>	BC	5,011,405	04-30-1991	Lemchen	
<i>ayal</i>	BD	5,017,133	05-21-1991	Miura	
<i>ayal</i>	BE	5,027,281	06-25-1991	Rekow et al.	
<i>ayal</i>	BF	5,035,613	07-30-1991	Breads et al.	
<i>ayal</i>	BG	5,055,039	10-08-1991	Abbatte et al.	
<i>ayal</i>	BH	5,059,118	10-22-1991	Breads et al.	
<i>ayal</i>	BI	5,100,316	03-31-1992	Wildman	
<i>ayal</i>	BJ	5,121,333	06-09-1992	Riley et al.	
<i>ayal</i>	BK	5,128,870	07-07-1992	Erdman et al.	
<i>ayal</i>	BL	5,131,843	07-21-1992	Hilgers et al.	
<i>ayal</i>	BM	5,131,844	07-21-1992	Marinaccio et al.	
<i>ayal</i>	BN	5,139,419	08-18-1992	Andreiko et al.	
<i>ayal</i>	BO	5,184,306	02-02-1993	Erdman et al.	

Examiner  
Signature*ayal Sharon*Date  
Considered

12/20/04

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60300946 v1



PTO/SB/08A (08-03)

<b>Substitute for form 1449A</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/888,261
		Filing Date	June 21, 2001
		First Named Inventor	NIKOLSKIY, SERGEY
		Art Unit	3732
Examiner Name	Unassigned		
Sheet 2 of 10	Attorney Docket Number	018563-003410US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
Apel	BP	5,186,623	02-16-1993	Breads et al.	
Apel	BQ	5,257,203	10-26-1993	Riley et al.	
Apel	BR	5,273,429	12-28-1993	Rekow et al.	
Apel	BS	5,278,756	01-11-1994	Lemchen et al.	
Apel	BT	5,338,198	08-16-1994	Wu et al.	
Apel	BU	5,340,309	08-23-1994	Robertson	
Apel	BV	5,342,202	08-23-1994	Deshayes	
Apel	BW	5,368,478	11-29-1994	Andreiko et al.	
Apel	BX	5,382,164	01-17-1995	Stem	
Apel	BY	5,395,238	03-07-1995	Andreiko et al.	
Apel	BZ	5,431,562	11-11-1995	Andreiko et al.	
Apel	CA	5,440,496	08-08-1995	Andersson et al.	
Apel	CB	5,447,432	09-05-1995	Andersson et al.	
Apel	CC	5,452,219	09-19-1995	Dehoff et al.	
Apel	CD	5,454,717	10-03-1995	Andreiko et al.	
Apel	CE	5,456,600	10-10-1995	Andreiko et al.	
Apel	CF	5,474,448	12-12-1995	Andreiko et al.	
Apel	CG	5,518,397	05-21-1996	Andreiko et al.	
Apel	CH	5,533,895	07-09-1996	Andreiko et al.	
Apel	CI	5,542,842	08-06-1996	Andreiko et al.	
Apel	CJ	5,549,476	08-27-1996	Stem	
Apel	CK	5,587,912	12-24-1996	Andersson et al.	
Apel	CL	5,605,459	02-25-1997	Kuroda et al.	
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Apel	CO	5,655,653	08-12-1997	Chester	
Apel	CP	5,683,243	11-04-1997	Andreiko et al.	
Apel	CQ	5,733,126	03-31-1998	Andersson et al.	
Apel	CR	5,740,267	04-14-1998	Echerer et al.	
Apel	CS	5,975,893	11-02-1999	Chishtu et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
duy	CT	EP	091,876	A1	10-19-1983	Duret		<input type="checkbox"/>
duy	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.		<input type="checkbox"/>
duy	CV	EP	376,873	A2	07-04-1990	Shafir		<input type="checkbox"/>
duy	CW	EP	490,848	B1	06-17-1992	Andersson et al.		<input type="checkbox"/>
duy	CX	EP	541,500	A1	06-12-1998	Andersson et al.		<input type="checkbox"/>

Examiner Signature	<i>Apel Shavron</i>	Date Considered	02/20/04
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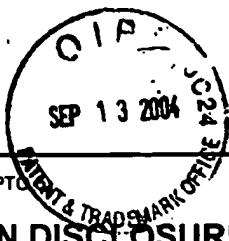
PTO/SB/08A (08-03)

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			Application Number	09/888,261	
			Filing Date	June 21, 2001	
			First Named Inventor	NIKOLSKIY, SERGEY	
			Art Unit	3732	
Examiner Name	Unassigned				
Sheet	3	of	10	Attorney Docket Number	018563-003410US

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
<i>Appl</i>	CY	EP	731,673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
<i>Appl</i>	CZ	EP	774,933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
<i>Appl</i>	DA	FR	2,652,256	A1	03-29-1991	Jourda		<input type="checkbox"/>
<i>Appl</i>	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
<i>Appl</i>	DC	WO	90/08,512	A1	08-09-1990	Lemcren		<input type="checkbox"/>
<i>Appl</i>	DD	WO	91/04,713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
<i>Appl</i>	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
<i>Appl</i>	DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
<i>Appl</i>	DG	WO	98/58,596	A1	12-30-1998	Chishtu et al.		<input type="checkbox"/>

Examiner Signature	<i>Appl Sharkey</i>	Date Considered	12/20/04
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		Attorney Docket Number	018563-003410US

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ayyl	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
ayyl	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
ayyl	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.	
ayyl	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1979, 2 pages total.	
ayyl	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 2 pages total..	
ayyl	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
ayyl	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavica</i> , vol. 47 (1989), pp. 279-286.	
ayyl	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 166, July 9-13, 1978, pp. 112-123.	
ayyl	DP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
ayyl	DQ	BAUMRIND et al., "Seminars in Orthodontics," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 222.	
ayyl	DR	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. 1-25.	
ayyl	DS	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
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ayyl	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> ; Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.	
ayyl	DV	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	
ayyl	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

Examiner Signature	ayyl Sharon	Date Considered	12/20/04
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PTO/SB/08B (08-03)

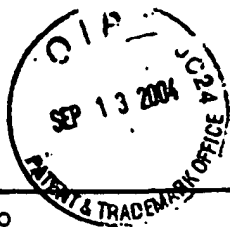
Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Application Number</b>	09/888,261	
			<b>Filing Date</b>	June 21, 2004	
			<b>First Named Inventor</b>	NIKOLSKIY, SERGEY	
			<b>Art Unit</b>	3732	
			<b>Examiner Name</b>	Unassigned	
<b>Sheet</b>	5	<b>of</b>	10	<b>Attorney Docket Number</b>	018563-003410US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>Aysel</i>	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	
<i>Aysel</i>	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.	
<i>Aysel</i>	DZ	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1985, Dept. of Children's Dentistry and Orthodontics, <i>J Dent Res.</i> , March 1986, pp. 428-431.	
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<b>Examiner Signature</b>	<i>Aysel Shwason</i>	<b>Date Considered</b>	12/20/04
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			Art Unit	3732	
			Examiner Name	Unassigned	
Sheet	6	of	10	Attorney Docket Number	018563-003410US

NON PATENT LITERATURE DOCUMENTS				
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Aysel	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.		
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Examiner Signature	Aysel Sharzon	Date Considered	12/20/04
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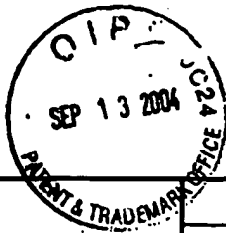
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Aysel	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.		
Aysel	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS 1999, p. 96.		
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Examiner Signature	<i>Aysel Shvach</i>	Date Considered	12/20/04
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Aysel	FU	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-578.		
Aysel	FV	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 339.		
Aysel	FW	MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro," <i>Schweizerische Monatsschrift für Zahnmedizin</i> , Vol. 85 (1985), p. 1118-1129.		
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Apel	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		
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Apel	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.		
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Apel	HH	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," <i>Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society</i> , Vol. 12, No. 5, pp. 2051-2053, 1990		
Apel	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.		

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